

CLIMATOLOGICAL DATA FOR OCTOBER, 1912.

DISTRICT No. 11, CALIFORNIA.

Prof. ALEXANDER G. McADIE, District Editor.

GENERAL SUMMARY.

October, 1912, was a pleasant month, but much cooler than the average October and with less rainfall than usual. In many respects October is the most pleasant month of the year in California, owing to the fact that light rains occur for short periods and are not of such duration or intensity as to interfere with the general run of fine weather. Temperatures are not extreme, there being an absence of high afternoon readings and at the same time no morning temperatures are low enough to cause discomfort. The present month was such as here described and there were no unusual disturbances. A moderate depression over the southern half of the State at the beginning of the month caused some cloudiness, light showers, and occasional thunderstorms in the mountains. On October 2 a thunderstorm was reported at San Diego. For four or five days the weather was unsettled in the section south of the Tehachapi, but elsewhere pleasant weather prevailed. A succession of clear days followed, lasting until October 21, when the southern end of a northern storm caused rain in the central and northern counties. Again, on October 25, light rains fell over the same districts, and for several days the weather was unsettled, and showers were reported in the Bay district and Sacramento Valley. The month closed with fair weather. As illustrating the diversity of climate within comparatively short distances in California, due largely to the influence of local factors, it may be stated that on October 13 the temperature did not rise above 48° at Eureka, nor above 52° at Southeast Farallon, while at Mount Tamalpais the maximum temperature was 77°, at Point Reyes 76°, and at San Francisco 79°. On the same date the maximum temperature at San Diego was 94°; at Los Angeles 92°, at Fresno 88°, at San Jose 82°, and at Sacramento 80°.

The month as a whole was favorable for raisin making, fruit drying, and other agricultural pursuits. There was no damage to raisins and the thrashing of beans was not interfered with. All the crops were safely harvested and the water supply was ample for agricultural purposes.

TEMPERATURE.

The temperature for the State was 4° below the normal. The following table gives the mean temperature for each October during the time for which records have been kept:

Years.	Mean.	Departure.	Years.	Mean.	Departure.
	°F.	°F.		°F.	°F.
1897.....	58.5	-2.6	1905.....	60.7	-0.4
1898.....	61.0	-0.1	1906.....	63.4	+2.3
1899.....	58.1	-3.0	1907.....	62.0	+0.9
1900.....	58.8	-2.3	1908.....	58.3	-2.8
1901.....	63.2	+2.1	1909.....	60.2	-0.9
1902.....	60.7	-0.4	1910.....	61.9	+0.8
1903.....	64.0	+2.9	1911.....	59.1	-2.0
1904.....	61.6	+0.5	1912.....	57.1	-4.0

The highest temperature recorded was 109° at Suisun on the 17th; but this record is doubtful, as it is not in accord with other reports for that date. Rejecting this reading, the highest temperature was 102° at Oceanside on the 13th. This is 6° cooler than the highest temperature recorded during October, 1911. The lowest temperature was 2° at Tamarack on the 7th, or 11° colder than the lowest temperature reported during October, 1911, which occurred at the same station. The highest mean temperature was 74.4° at Bagdad, and the lowest was 28.4° at Tamarack, the elevation of which is 8,000 feet. The mean temperature at this station during October, 1912, was 10° lower than during October, 1911.

PRECIPITATION.

The average monthly precipitation for California for October with departures from the normal is as follows:

Years.	Mean.	Departure.	Years.	Mean.	Departure.
	°F.	°F.		°F.	°F.
1897.....	1.79	+0.34	1905.....	0.12	-1.33
1898.....	0.59	-0.86	1906.....	0.09	-1.36
1899.....	3.50	+2.05	1907.....	1.56	+0.11
1900.....	2.34	+0.89	1908.....	1.37	-0.08
1901.....	1.50	+0.05	1909.....	1.66	+0.21
1902.....	1.78	+0.33	1910.....	0.83	-0.62
1903.....	0.49	-0.96	1911.....	0.58	-0.87
1904.....	2.74	+1.29	1912.....	1.09	-0.36

The greatest monthly precipitation was 6.15 inches at Weitchpec. Nineteen stations reported no rain during the month.

SUNSHINE.

The following table gives the total hours of sunshine and percentages of the possible:

Stations.	Hours.	Percentage of possible.	Stations.	Hours.	Percentage of possible.
Eureka.....	66	19	Sacramento.....	268	77
Fresno.....	299	86	San Diego.....	242	69
Los Angeles.....	231	66	San Francisco.....	317	91
Mount Tamalpais.....	271	78	San Jose.....	301	86
Red Bluff.....	227	66	San Luis Obispo.....	255	73

There was less sunshine than during the same month of the preceding year, except at San Francisco, San Jose, and Mount Tamalpais, where there was more.

NOTES ON THE RIVERS OF THE SACRAMENTO AND LOWER SAN JOAQUIN WATERSHEDS DURING THE MONTH OF OCTOBER, 1912.

By N. R. TAYLOR, Local Forecaster.

Sacramento watershed.—The rivers of this watershed continued at abnormally low stages during the entire month.

The rains that were more or less general during the last decade of the month had little effect on the run-off in any stream, the resultant rise in no case being greater than 0.5 of a foot.